Attorney's Docket No.: 12816-044US1 / S1692 SB/swi Applicant: Heinrich Schenk

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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## **Listing of Claims**:

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## Listing of Claims:

- 1.-10. (Cancelled)
- 11. (Currently Amended) A method for receiving a received signal transmitted via a duplex transmission system, the method comprising:

receiving the received signal from a duplex transmission unit in the duplex transmission system;

sampling the received signal at twice a symbol rate of the received signal;

generating an echo compensation signal in an echo compensation device on the basis of a transmitted signal from the duplex transmission unit;

combining the echo compensation signal with the sampled received signal to obtain an echo-compensated received signal;

equalizing the echo-compensated received signal; and

outputting the echo-compensated received signal for further processing;

wherein after sampling at twice the symbol rate, the received signal [[,]] is equalized and the equalized received signal is sampled again at once the symbol rate and is subsequently supplied to the echo compensation device.

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12. (Previously Presented) The method of claim 11, wherein the received signal is equalized using a nonrecursive digital filter after the sampling at twice the symbol rate and before the sampling at once the symbol rate.

- 13. (Previously Presented) The method of claim 12, wherein the nonrecursive digital filter has a set of coefficients unaltered during data transmission.
- 14. (Currently Amended) A receiver arrangement for a duplex transmission unit, the receiver arrangement comprising:
- a first sampling device for sampling a received signal from the duplex transmission unit at twice a symbol rate of the received signal;

an echo compensator device for producing an echo compensation signal on the basis of a transmitted signal from the duplex transmission unit, with the echo compensation signal being combined in the echo compensation device with the received signal sampled by the sampling device to obtain an echo-compensated received signal; and

a first equalizer for equalizing the echo-compensated received signal and for outputting the equalized and echo-compensated received signal for further processing;

wherein the first sampling device and the echo compensation device include a second equalizer arranged between the first sampling device and the echo cancellation device to which the received signal sampled at twice the symbol rate by the first sampling device is supplied for equalization; and

wherein a second sampling device is provided to sample the received signal equalized by the second equalizer at once the symbol rate and to <u>subsequently</u> supply it the received signal to the echo compensation device.

15. (Previously Presented) The receiver arrangement of claim 14, wherein the second equalizer includes a digital filter.

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16. (Previously Presented) The receiver arrangement of claim 15, wherein the second equalizer includes a nonrecursive digital filter.

- 17. (Previously Presented) The receiver arrangement of claim 16, wherein a set of coefficients of the second equalizer is set permanently.
- 18. (Previously Presented) The receiver arrangement of claim 14, wherein the received signal is supplied to the first sampling device via a reception filter, the received signal being sampled at once the symbol rate by the second sampling device and being equalized by the second equalizer, the received signal being supplied to the echo compensation device via a digital high-pass

filter.

19. (Previously Presented) The receiver arrangement of claim 18, wherein the first equalizer includes a digital nonrecursive filter with adaptively settable filter coefficients, the first equalizer having a decision feedback equalizer connected in series therewith, the decision feedback equalizer being configured to output the equalized and echo-compensated received signal for further processing.